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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech						
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	3,796	2,194	196	216	235	254	274	293	Continuing	Continuing
2522 Advanced Computer Technology Transition	676	0	0	0	0	0	0	0	0	4,381
2523 Architectural Implementation	684	2,194*	196	216	235	254	274	293	Continuing	Continuing
2524 Reuse and Component Support (RCS)	2,436	0	0	0	0	0	0	0	0	12,259
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

* Congress added an additional \$2.0 million in FY99 for the National Product Line Asset Center (NPLACE). These funds were inadvertently placed in project 2523 as opposed to project 2524. Funds will be transferred to project 2524 at the earliest opportunity.

(U) **A. Mission Description**
 A major restructuring of this program into an Integrated Command and Control Applications (IC2A) program in support of Command and Control Centers is currently in process. The goal of this program is to dramatically reduce the development time, costs, and risks associated with the acquisition and development of warfighting command and control (C2) systems by using families of pre-defined product lines to enhance common application use and reuse. As part of this, Project 2522 was merged and funding was transitioned to Project 2523, to be renamed Command and Control Product Lines (CCPL). The CCPL project minimizes development cost and time by using pre-defined product line architectures with tested, reusable software components from mature programs. The use of common product line designs during development can improve software quality and reliability while reducing fielding times and overall life cycle costs. Project 2524, Reuse and Component Support (RCS) identifies, tests, and provides reusable software components and products to the IC2A program. The RCS project developed a software reuse strategy for the DoD; and is developing a National Product Line Asset Center (NPlace) Software Reuse Repository to manage a command center product line based on primarily commercial off-the-shelf (COTS) products. The IC2A program has determined that over 80% of the functionality of any command center software is common to all command centers. For programs using product line concepts, average savings of 56% in development costs and 66% in development time can be realized.

(U) **B. Budget Activity Justification:**
 This program is in budget activity 5 - Engineering and Manufacturing Development, due to the nature of the effort.

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(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget FY 1999 PB	4,159	200	0	0	Continuing
(U) Appropriated Value	4,459	2,200			
(U) Adjustments to Appropriated Value					
a. Cong Reductions	-146	-6			
b. SBIR	-109				
c. Omnibus or Other Above Threshold Reprogram	-11				
d. Below Threshold Reprogramming	-397				
(U) Adjustments to Budget Years Since FY 1999 PB			196	216	
(U) Current Budget Submit/FY 2000 PB	3,796	2,194	196	216	Continuing

(U) Significant Program Changes:
 Funding was restored to FY00 - FY05 to facilitate the restructuring of this program into a Integrated Command and Control Applications (IC2A) program.
 FY99: SBIR \$70 identified as source.

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech				PROJECT 2522		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2522 Advanced Computer Technology Transition	676	0	0	0	0	0	0	0	0	4,381
<p>(U) A. Mission Description This project conducts research to improve support of embedded computer system software. It encompasses automation and standardization of support processes, advanced support methodologies, tools and environments, and readiness support to facilitate rapid turnaround of software in response to changing mission and/or changing threat requirements. As part of a major restructuring of this program, this project was transferred to project 2523 after FY 98.</p> <p>(U) FY 1998 (\$ in Thousands): – (U) \$ 180 Continued development of technology transition infrastructure within the Air Force – (U) \$ 320 Update to existing architecture to accommodate new technologies – (U) \$ 176 Upgrade to existing component structure to allow for new technologies – (U) \$ 676 Total</p> <p>(U) FY 1999 (\$ in Thousands): – (U) \$ 0 Total (Project 2522 transitioned to Project 2523)</p> <p>(U) FY 2000 (\$ in Thousands): – (U) \$ 0 Total (Project 2522 transitioned to Project 2523)</p> <p>(U) FY 2001 (\$ in Thousands): – (U) \$ 0 Total (Project 2522 transitioned to Project 2523)</p>										

Project 2522
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech	PROJECT 2522
<p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u> Project 2522 transitioned to Project 2523</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> Not applicable.</p> <p>(U) D. <u>Acquisition Strategy:</u> All major contracts within this Program Element were awarded after full and open competition.</p> <p>(U) E. <u>Schedule Profile</u> Not applicable. This is a support and management level of effort program. All activities are ongoing.</p>		
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 1999			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech			PROJECT 2522			
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
		<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>						
(U) Continued development of technology infrastructure within the Air Force.		180	0	0	0						
(U) Update to existing architecture to accommodate new technologies.		320	0	0	0						
(U) Upgrade to existing component structure to allow for new technologies.		176	0	0	0						
(U) Total		676	0	0	0						
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
Universal SCA	CP	Dec 94	N/A	N/A	75	0	0	0	0	0	75
AGCS	CP	Jan 95	N/A	N/A	50	0	0	0	0	0	50
Martin Marietta	FFP	22 Oct 94	N/A	N/A	213	0	0	0	0	0	213
Hughes Aircraft	CPFF	19 Dec 92	N/A	N/A	282	220	0	0	0	0	502
Raytheon Co.	CPFF	19 Dec 92	N/A	N/A	891	200	0	0	0	0	1,091
Unisys	CPFF	29 Sep 93	N/A	N/A	660	0	0	0	0	0	660
TRW	CPFF	20 Feb 97	N/A	N/A	0	256	0	0	0	0	256
Lockheed Martin	CP	Var	N/A	N/A	0	0	0	0	0	0	0
<div style="display: flex; justify-content: space-between; margin-top: 20px;"> Project 2522 Page 5 of 14 Pages Exhibit R-3 (PE 0604740F) </div>											

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech					PROJECT 2522	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Support and Management Organizations											
OO-ALC	N/A	Var	N/A	N/A	157	0	0	0	0	0	157
SENCOM	N/A	Jan 95	N/A	N/A	25	0	0	0	0	0	25
MOSAIC (TEMS)	CP	Jan 95	N/A	N/A	415	0	0	0	0	0	415
JLC	N/A	Var	N/A	N/A	230	0	0	0	0	0	230
SEI	FFRDC	Var	N/A	N/A	185	0	0	0	0	0	185
Sterling	N/A	Var	N/A	N/A	0	0	0	0	0	0	0
ATTI	N/A	Var	N/A	N/A	0	0	0	0	0	0	0
ESC	N/A	N/A	N/A	N/A	522	0	0	0	0	0	522
Test and Evaluation Organizations											
Not applicable.											
Government Furnished Property:											
Not applicable.											
Subtotal Product Development					2,171	676	0	0	0	0	2,847
Subtotal Support and Management					1,534	0	0	0	0	0	1,534
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					3,705	676	0	0	0	0	4,381
Project 2522											
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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech				PROJECT 2523		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2523 Architectural Implementation	684	2,194*	196	216	235	254	274	293	Continuing	Continuing

* Congress added an additional \$2.0 million in FY99 for the National Product Line Asset Center (NPLACE). These funds were inadvertently placed in project 2523 as opposed to project 2524. Funds will be transferred to project 2524 at the earliest opportunity.

(U) **A. Mission Description**

As part of the restructuring of this program (see page 1), this project will be renamed Command and Control Product Lines (CCPL). The CCPL project forms a vital component of the Integrated Command and Control Applications (IC2A) program by providing pre-defined product line architectures with tested, reusable software components to build Command and Control (C2) systems. Using rapid prototyping techniques, a CCPL contractor can quickly tailor a product line to the warfighter's needs and deliver an integrated, combat-ready system. All product lines and components are based on Defense Information Infrastructure Common Operating Environment (DII COE) principles; make maximum use of open system architectures, industry standards, Commercial Off-the Shelf (COTS) products, and government furnished equipment; and incorporate multilevel security (MLS) features. CCPL minimizes development risks by reusing proven software components from mature programs and by continuously testing new products and technologies against the product line designs to ensure integration and interoperability. The CCPL contractors develop and maintain the C2 product line infrastructure in a collaborative, synergistic environment using validated, mature software engineering processes to help ensure the quality of the designs and components. Proven product line designs and tested software components reduce development costs, risks, and time for the user. New technologies, capabilities, and incremental developments are assessed and integrated into the designs as part of the product line development process to minimize any impact to the user.

(U) **FY 1998 (\$ in Thousands):**

- (U) \$ 340 Qualify components for CCPL
- (U) \$ 344 Integrate products into CCPL
- (U) \$ 684 Total

(U) **FY 1999 (\$ in Thousands):**

- (U) \$ 200 Qualify components for CCPL
- (U) \$ 360 Identify Enterprise Wide Assets (From COTS, GOTS, Product line engineering centers).
- (U) \$ 1,320 Perform suitability testing against product line architectures, assets, criteria, and design.
- (U) \$ 244 Maintain repository/distribute product line architecture, assests, criteria, and design.
- (U) \$ 70 Identified as a source for SBIR.
- (U) \$ 2,194 Total

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech	PROJECT 2523

(U) FY 2000 (\$ in Thousands):

- (U) \$ 196 Qualify components for CCPL
- (U) \$ 196 Total

(U) FY 2001 (\$ in Thousands):

- (U) \$ 216 Qualify components for CCPL
- (U) \$ 216 Total

(U) **B. Project Change Summary - Description of Significant Changes:**
Funding was restored to FY00 - FY05 to facilitate the restructuring of this program. Congress added an additional \$2.0 million into the FY99 program for the National Product Line Asset Center (NPLACE).

(U) **C. Other Program Funding Summary (\$ in Thousands)**
Not applicable.

(U) **D. Acquisition Strategy:**
All major contracts within this Program Element were awarded after full and open competition.

(U) **E. Schedule Profile**
Not applicable. This is a support and management level of effort program. All activities are ongoing.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 1999				
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech			PROJECT 2523			
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U)	CCPL Component Qualification				340	200	196	216			
(U)	CCPL Product Integration				344	0	0	0			
(U)	Identify Enterprise Wide Assets				0	360	0	0			
(U)	Perform Suitability Testing				0	1,320	0	0			
(U)	Maintain Repository/Distribute Product Line				0	244	0	0			
(U)	Identified as a source for SBIR				0	70	0	0			
(U)	Total				684	2,194	196	216			
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
Identified as a source for SBIR					0	0	70	0	0	0	70
<u>Product Development Organizations</u>											
Hughes	CPFF	19 Dec 92	N/A	N/A	453	458	65	65	72	Continuing	Continuing
Raytheon	CPFF	19 Dec 92	N/A	N/A	1,000	0	64	66	72	Continuing	Continuing
AGCS	CPFF	Dec 94	N/A	N/A	50	0	0	0	0	0	50
TRW	CPFF	12 Feb 97	N/A	N/A	0	190	65	65	72	Continuing	Continuing
Unisys	CPFF	29 Sep 93	N/A	N/A	30	0	0	0	0	0	30
WVA High Tech	NPLACE	18 Nov 96	N/A	N/A	0	0	1,732	0	0	0	1,732
Raytheon/Hughes /TRW	CPFF	20 Feb 97	N/A	N/A	0	0	192	0	0	0	192
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech					PROJECT 2523	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Support and Management Organizations</u>											
MOSAIC (TEMS)	N/A	Var	N/A	N/A	178	0	0	0	0	0	178
ATTI	N/A	Var	N/A	N/A	22	0	0	0	0	0	22
ESC	N/A	N/A	N/A	N/A	247	36	0	0	0	Continuing	Continuing
<u>Test and Evaluation Organizations</u>											
Not applicable.											
Government Furnished Property:											
Not applicable.											
Identified as source for SBIR					0	0	70	0	0	0	70
Subtotal Product Development					1,533	648	2,124	196	216	Continuing	Continuing
Subtotal Support and Management					447	36	0	0	0	Continuing	Continuing
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					1,980	684	2,194	196	216	Continuing	Continuing

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 1999		
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech				PROJECT 2524		
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2524 Reuse and Component Support (RCS)	2,436	0	0	0	0	0	0	0	0	12,259
<p>* Congress added an additional \$2.0 million in FY99 for the National Product Line Asset Center (NPLACE). These funds were inadvertently placed in project 2523 as opposed to project 2524. Funds will be transferred to project 2524 at the earliest opportunity.</p> <p>(U) A. Mission Description This project was renamed the Comprehensive Approach for Reusable Defense Software (CARDS) program. CARDS developed a reuse blueprint for DoD and established a reuse library. CARDS is a Congressional special interest item for which Congress has added funds in every FY since FY92 with the exception of FY97. CARDS identifies, tests, and provides reusable software components and products to the CCPL program. CARDS developed a software reuse strategy for the DoD; and is developing a Product Line Asset Center Software Reuse Repository to manage a command center product line based primarily on commercial off-the-shelf (COTS) products through the National Product Line Asset Center (NPLACE) contract vehicle.</p> <p>(U) <u>FY 1998 (\$ in Thousands):</u> – (U) \$ 440 Identify Enterprise Wide Assets (From COTS, GOTS, Product line engineering centers). – (U) \$ 1,699 Perform suitability testing against product line architectures, assets, criteria, and design. – (U) \$ 297 Maintain repository/distribute product line architecture, assets, criteria, and design. – (U) \$ 2,436 Total</p> <p>(U) <u>FY 1999 (\$ in Thousands):</u> – (U) \$ 0 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands):</u> – (U) \$ 0 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands):</u> – (U) \$ 0 Total</p>										

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 1999
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech	PROJECT 2524
<p>(U) B. <u>Project Change Summary - Description of Significant Changes:</u> Congress added \$3.0 million to the FY98 program as part of the FY98 appropriation for the Central Archive for Reusable Defense Software (CARDS) program and an additional \$2.0 million into the FY99 program for the National Product Line Asset Center (NPLACE).</p> <p>(U) C. <u>Other Program Funding Summary (\$ in Thousands)</u> Not applicable.</p> <p>(U) D. <u>Acquisition Strategy</u> All major contracts within this Program Element were awarded after full and open competition.</p> <p>(U) E. <u>Schedule Profile</u> Not applicable. This is a support and management level of effort program. All activities are ongoing.</p>		
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 1999			
BUDGET ACTIVITY 5 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604740F Computer Resources Mgt Tech					PROJECT 2524	
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U)	Identify Enterprise Wide Assets				440	0	0	0			
(U)	Perform Suitability Testing				1,699	0	0	0			
(U)	Maintain Repository/Distribute Product Line				297	0	0	0			
(U)	Total				2,436	0	0	0			
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
Contractor or Government Performing <u>Activity</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Performing Activity <u>EAC</u>	Project Office <u>EAC</u>	Total Prior to <u>FY 1998</u>	Budget <u>FY 1998</u>	Budget <u>FY 1999</u>	Budget <u>FY 2000</u>	Budget <u>FY 2001</u>	Budget to Complete	Total Program
<u>Product Development Organizations</u>											
Lockheed Martin	CPFF	May 97	N/A	N/A	0	30	0	0	0	0	30
<u>Support and Management Organizations</u>											
Unisys	CPFF	29 Sep 93	N/A	N/A	5,638	0	0	0	0	0	5,638
AGCS	CR	Dec 94	N/A	N/A	270	0	0	0	0	0	270
WVA High Tech	NPLACE	18 Nov 96	N/A	N/A	1,700	2,006	0	0	0	0	3,706
Raytheon/Hughes/T RW	CPFF	20 Feb 97	N/A	N/A	38	400	0	0	0	0	438
ATTI	N/A	N/A	N/A	N/A	253	0	0	0	0	0	253
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Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Test and Evaluation Organizations</u> Not applicable											
Government Furnished Property: Not applicable.											
Subtotal Product Development					0	30	0	0	0	0	30
Subtotal Support and Management					7,899	2,406	0	0	0	0	10,305
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					7,899	2,436	0	0	0	0	10,335

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